**Interim Review HW Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Quarter 1 Period:\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| 1. Points *W*, *X*, *Y*, and *Z* are collinear. *WZ* = 40, *XZ* = 18, and *Y* is the midpoint of *XZ.* What is the length of *XY*?  W X Y Z | | 2. In the figure below, line segments *a*  and *b* are parallel and they are intersected by line segment *c*. What is the relationship between 1 and 7?     1. *m*1 = *m*7 2. *m*1 *m*7 3. *m*1 + *m*7 = 90 4. *m*1 + *m*7 = 180 5. Cannot be determined from the given information | |
| 3. What is the solution set of?  **A.**  **B.**  **C. {**and }  **D. {** and }  **E**. **{** or } | |
| 4. Solve the following equation where x = -3. | 5. Determine whether the point A(1, 6) is on the line y = 4x + 2. | | 6. What is the slope of a ramp that has coordinates at (-2, 3) and (5, -2)? |
| 7. Opposite vertices of a square in the standard (x,y) coordinate plane have coordinates (4, 16) and (20, 0). What are the coordinates for the center of this square?  A. (18, 2) B. (12, 8) C. (8, 12) D. (4, 20) | | 8. The locations of the towns of Mount Vernon is (11,0) and Clearfield is (-20, 2). Little City is (15, -12) and Allentown (21, 4). The coordinates are given in miles.   1. Find the distance between Mount Vernon and Clearfield. 2. Find the distance between Little City and Allentown. 3. Which distance is greater? | |
| 9. Write  in slope intercept form.  A)  B)  C)  D)  E) | |
| 10. Solve for a.  a2+ | 11. Are these lines parallel, perpendicular, or neither?  Line 1: (1, 0), (7, 4)  Line 2: (7, 0), (3, 6) | | 12. Identify the slope of the line: |
| 13. How far apart are the values that satisfy the equation 23 = |7a + 2| ? | | 14. On a number line, point *X* is located at 5, *Y* is located at –2, and *Z* is located at –10. How much longer is *XZ* than *YZ*? | |
| 15. In the figure below, JML is a straight line. If , find *.* | | 16. Solve for x: | |
| 17. Graph 2x + 6y = 12 | 18. How many millimeters long is the diameter of a circle whose area is 49 mm2? | | 19. Which of the following have the steepest slope? |
| 20. What is the measure, in degrees, of the angle between the hands of a standard clock and exactly 2 o’clock? | 21. On a real number line, what is the distance in coordinate units between points *R* and *Q* if *R* has a coordinate of -12 and *Q* has a coordinate of 6? | | 22. What is the perimeter of a square with a side length of 10 inches? |